

Recombinant Human PDXK, His-tagged

Cat. No. PDXK-29673TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDXK.1 with N terminal His tag; 336 amino acids with tag, Predicted MWt 37.6 kDa.
Species	Human
Source	E.coli
ProteinLength	312 amino acids
Description	The protein encoded by this gene phosphorylates vitamin B6, a step required for the conversion of vitamin B6 to pyridoxal-5-phosphate, an important cofactor in intermediary metabolism. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.
Conjugation	HIS
Molecular Weight	37.600kDa inclusive of tags
Tissue specificity	Ubiquitous. Isoform 3 is detected in adult testis and spermatozoa.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMGSHMEEECRVLSIQSHVIRGYVGNRAATFPLQVL GFEIDAVNSVQFSNHTGYAHWKGQVLNDELQELYEGLRLNNMNKYDYVLTGYTR DKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVV LADIITPNQFEAELLSGRKIHSQEEALRVMDMLHSMGPDVTVVITSSDLPSPQGSNYLI VLGSQRRRNPAGSVVMERIRMDIRKVDVAVFGTGDLFAMLLAWTHKHPNNLKVAC EKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDIEDPEIVVQATVL
Sequence Similarities	Belongs to the pyridoxine kinase family.

GENE INFORMATION

Gene Name	PDXK pyridoxal (pyridoxine, vitamin B6) kinase [Homo sapiens]
Official Symbol	PDXK
Synonyms	PDXK; pyridoxal (pyridoxine, vitamin B6) kinase; C21orf97, C21orf124, chromosome 21 open reading frame 97 , chromosome 21 open reading frame 124; pyridoxal kinase; FLJ21324; FLJ31940; MGC15873; PKH; PNK; PRED79;
Gene ID	8566
mRNA Refseq	NM_003681
Protein Refseq	NP_003672

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MIM	179020
Uniprot ID	O00764
Chromosome Location	21q22.3
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Vitamin B6 metabolism, organism-specific biosystem;
Function	ATP binding; lithium ion binding; magnesium ion binding; nucleotide binding; potassium ion binding;

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